

GenCore version 5.1.6			
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OM nucleic - nucleic search, using sw model			
Run on: January 6, 2004, 22:38:11 ; Search time 405.12 Seconds (without alignments) 9028.774 Million cell updates/sec			
Title: US-09-904-568-3			
Perfect score: 1355			
Sequence: 1 gggcaggcagttgaggtgga.....gtgtttcaggcagggcccg 1355			
Scoring table: IDENTITY_NUC Gapop 10.0 , Gapext 1.0			
Searched: 2552756 seqs, 1349719017 residues			
Total number of hits satisfying chosen parameters: 2356588			
Minimum DB seq length: 12			
Maximum DB seq length: 50			
Post-processing: Minimum Match 0% Maximum Match 100% Listing first 65000 summaries			
Database : N_Geneseq_19Jun03:*			
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.			
SUMMARIES			

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c48488	12.8	0.9	17	24	ABV90546	0.752941
c48489	12.8	0.9	17	24	ABV90554	0.752941
c48490	12.8	0.9	17	24	ABV91053	0.752941
c48491	12.8	0.9	17	24	ABV91054	0.752941
c48492	12.8	0.9	17	24	ABQ63634	0.752941
c48493	12.8	0.9	17	24	ABQ63636	0.752941
48494	12.8	0.9	17	24	ABK55869	0.752941
c48495	12.8	0.9	17	24	ABK56045	0.752941
c48496	12.8	0.9	17	24	ABK56620	0.752941
c48497	12.8	0.9	17	24	ABK56621	0.752941
48498	12.8	0.9	17	24	ABK57130	0.752941
c48499	12.8	0.9	17	24	ABK57404	0.752941
c48500	12.8	0.9	17	24	ABN01790	0.752941
c48501	12.8	0.9	17	24	ABN01792	0.752941
48502	12.8	0.9	17	24	ABN01897	0.752941

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48504	12.8	0.9	17	24	ABN06164	0.752941
48505	12.8	0.9	17	24	ABN06167	0.752941
48506	12.8	0.9	17	24	ABN06274	0.752941
48507	12.8	0.9	17	24	ABN06275	0.752941
48508	12.8	0.9	17	24	ABN06515	0.752941
48509	12.8	0.9	17	24	ABN06516	0.752941
c48510	12.8	0.9	17	24	ABN08389	0.752941
c48511	12.8	0.9	17	24	ABN08392	0.752941
c48512	12.8	0.9	17	24	ABN09587	0.752941
c48513	12.8	0.9	17	24	ABN09588	0.752941
48514	12.8	0.9	17	24	ABN10235	0.752941
48515	12.8	0.9	17	24	ABN10238	0.752941
48516	12.8	0.9	17	24	ABN10239	0.752941
48517	12.8	0.9	17	24	ABN10240	0.752941
c48518	12.8	0.9	17	24	ABN10735	0.752941
c48519	12.8	0.9	17	24	ABN10736	0.752941
c48520	12.8	0.9	17	24	ABN10737	0.752941
c48521	12.8	0.9	17	24	ABN10738	0.752941
48522	12.8	0.9	17	24	ABK17830	0.752941
48523	12.8	0.9	17	24	ABK18357	0.752941
48524	12.8	0.9	17	24	ABK18359	0.752941
c48525	12.8	0.9	17	24	ABK18805	0.752941
48526	12.8	0.9	17	24	ABK19286	0.752941
c48527	12.8	0.9	17	24	ABK19333	0.752941
c48528	12.8	0.9	17	24	ABK25511	0.752941
48529	12.8	0.9	17	24	ABK25512	0.752941
c48530	12.8	0.9	17	24	ABK25527	0.752941
48531	12.8	0.9	17	24	ABK25528	0.752941
48532	12.8	0.9	17	24	ABL31073	0.752941
48533	12.8	0.9	17	24	ABL31564	0.752941
48534	12.8	0.9	17	24	ABL31655	0.752941
48535	12.8	0.9	17	24	ABL31671	0.752941
48536	12.8	0.9	17	24	ABL31720	0.752941
48537	12.8	0.9	17	24	ABA01457	0.752941
48538	12.8	0.9	17	25	ABT35820	0.752941
c48539	12.8	0.9	17	25	ABT35849	0.752941
48540	12.8	0.9	17	25	ABT36006	0.752941
48541	12.8	0.9	17	25	ABT37187	0.752941
48542	12.8	0.9	17	25	ABT37634	0.752941
c48543	12.8	0.9	17	25	ABT37805	0.752941
c48544	12.8	0.9	17	25	ABT38097	0.752941
c48545	12.8	0.9	17	25	ABT39257	0.752941
48546	12.8	0.9	17	25	ABT39551	0.752941
48547	12.8	0.9	17	25	ABT39720	0.752941
48548	12.8	0.9	17	25	ACA06264	0.752941
48549	12.8	0.9	17	25	ACA06326	0.752941
c48550	12.8	0.9	17	25	ACA06585	0.752941
48551	12.8	0.9	17	25	ACA06587	0.752941
c48552	12.8	0.9	17	25	ACA06653	0.752941
c48553	12.8	0.9	17	25	ACA06814	0.752941
c48554	12.8	0.9	17	25	ACA06858	0.752941
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c48556	12.8	0.9	17	25	ACA07770	0.752941
48557	12.8	0.9	17	25	ACA08920	0.752941
c48558	12.8	0.9	17	25	ACC44610	0.752941
c48559	12.8	0.9	17	25	ABZ60572	0.752941
48560	12.8	0.9	17	25	ABZ61171	0.752941
c48561	12.8	0.9	17	25	ABZ61760	0.752941
c48562	12.8	0.9	17	25	ABZ61761	0.752941

48563	12.8	0.9	17	25	ABZ64859	0.752941
48564	12.8	0.9	17	25	ABZ64966	0.752941
2622	15.8	1.2	21	19	AAV47652	0.752381
2623	15.8	1.2	21	19	AAV49607	0.752381
c2624	15.8	1.2	21	21	AAZ76174	0.752381
c2625	15.8	1.2	21	21	AAA63852	0.752381
c2626	15.8	1.2	21	21	AAA47627	0.752381
2627	15.8	1.2	21	24	AAL47730	0.752381
2628	15.8	1.2	21	24	ABK94275	0.752381
c2629	15.8	1.2	21	24	ABK94276	0.752381
12712	14.2	1	19	22	AAD04572	0.747368
c12713	14.2	1	19	25	ABT13587	0.747368
c28077	13.4	1	18	13	AAQ26549	0.744444
c28078	13.4	1	18	14	AAQ52841	0.744444
28079	13.4	1	18	17	AAX67098	0.744444
28080	13.4	1	18	19	AAV54171	0.744444
c28081	13.4	1	18	21	AAA48761	0.744444
28082	13.4	1	18	21	AAA10983	0.744444
c28083	13.4	1	18	21	AAA10986	0.744444
28084	13.4	1	18	21	AAZ90641	0.744444
28085	13.4	1	18	21	AAZ97002	0.744444
c28086	13.4	1	18	21	AAZ97005	0.744444
c28087	13.4	1	18	21	AAZ44140	0.744444
c28088	13.4	1	18	21	AAZ35905	0.744444
28089	13.4	1	18	22	AAH75239	0.744444
28090	13.4	1	18	22	AAH55881	0.744444
28091	13.4	1	18	22	AAH25339	0.744444
28092	13.4	1	18	22	AAH25861	0.744444
c28093	13.4	1	18	22	AAF62366	0.744444
28094	13.4	1	18	22	AAF58213	0.744444
c28095	13.4	1	18	22	AAF58216	0.744444
c28096	13.4	1	18	25	ABZ10842	0.744444
c7297	14.8	1.1	20	14	AAQ52925	0.74
7298	14.8	1.1	20	20	AAZ02840	0.74
c7299	14.8	1.1	20	21	AAA70403	0.74
c7300	14.8	1.1	20	21	AAC79519	0.74
c7301	14.8	1.1	20	21	AAA72640	0.74
7302	14.8	1.1	20	21	AAA11329	0.74
c7303	14.8	1.1	20	21	AAA11141	0.74
c7304	14.8	1.1	20	22	AAS45551	0.74
c7305	14.8	1.1	20	22	AAF92937	0.74
c7306	14.8	1.1	20	22	AAD17405	0.74
7307	14.8	1.1	20	24	AAD40654	0.74
7308	14.8	1.1	20	24	AAD40836	0.74
c7309	14.8	1.1	20	24	AAD41521	0.74
7310	14.8	1.1	20	24	AAD36447	0.74
7311	14.8	1.1	20	24	ABA05916	0.74
c7312	14.8	1.1	20	24	AAS16509	0.74
c7313	14.8	1.1	20	24	ABI93685	0.74
c7314	14.8	1.1	20	25	ABT34167	0.74
c7315	14.8	1.1	20	25	ABX78118	0.74
15359	14	1	19	19	AAV70248	0.736842
15360	14	1	19	21	AAA82832	0.736842
15361	14	1	19	21	AAA82833	0.736842
15362	14	1	19	22	AAH57994	0.736842
15363	14	1	19	22	AAH57995	0.736842
15364	14	1	19	23	ABL55323	0.736842
3806	15.4	1.1	21	16	AAQ75612	0.733333
c3807	15.4	1.1	21	18	AAT84695	0.733333
c3808	15.4	1.1	21	18	AAT51587	0.733333



c3809	15.4	1.1	21	22	AAH91924	0.733333
3810	15.4	1.1	21	22	AAF96193	0.733333
34108	13.2	1	18	10	AAN92661	0.733333
34109	13.2	1	18	15	AAQ54537	0.733333
c34110	13.2	1	18	15	AAQ89247	0.733333
34111	13.2	1	18	18	AAX75643	0.733333
34112	13.2	1	18	18	AAX71704	0.733333
34113	13.2	1	18	18	AAX70233	0.733333
34114	13.2	1	18	18	AAT84310	0.733333
c34115	13.2	1	18	18	AAT80260	0.733333
34116	13.2	1	18	18	AAQ67556	0.733333
c34117	13.2	1	18	18	AAQ67557	0.733333
34118	13.2	1	18	19	AAV16730	0.733333
34119	13.2	1	18	20	AAZ01197	0.733333
c34120	13.2	1	18	20	AAX77049	0.733333
c34121	13.2	1	18	20	AAX57940	0.733333
c34122	13.2	1	18	20	AAX03321	0.733333
c34123	13.2	1	18	21	AAZ71683	0.733333
34124	13.2	1	18	21	AAA92417	0.733333
34125	13.2	1	18	21	AAA55497	0.733333
34126	13.2	1	18	21	AAA27086	0.733333
c34127	13.2	1	18	21	AAA39029	0.733333
c34128	13.2	1	18	21	AAA15532	0.733333
c34129	13.2	1	18	21	AAA09715	0.733333
34130	13.2	1	18	21	AAZ91440	0.733333
34131	13.2	1	18	21	AAZ65527	0.733333
c34132	13.2	1	18	22	AAI66785	0.733333
34133	13.2	1	18	22	AAF89283	0.733333
34134	13.2	1	18	22	AAH75784	0.733333
34135	13.2	1	18	22	AAH51027	0.733333
34136	13.2	1	18	22	AAF26667	0.733333
34137	13.2	1	18	24	ABQ82729	0.733333
34138	13.2	1	18	24	ABS70260	0.733333
c34139	13.2	1	18	24	ABS65844	0.733333
c34140	13.2	1	18	24	ABT06049	0.733333
c34141	13.2	1	18	24	ABK47739	0.733333
c34142	13.2	1	18	24	ABK24039	0.733333
34143	13.2	1	18	24	ABL43688	0.733333
c34144	13.2	1	18	25	ABT21516	0.733333
c34145	13.2	1	18	25	ABT15904	0.733333
34146	13.2	1	18	25	ABV77248	0.733333
c34147	13.2	1	18	25	ABQ84276	0.733333
c34148	13.2	1	18	25	ABZ10445	0.733333
c34149	13.2	1	18	25	ABZ10446	0.733333
c34150	13.2	1	18	25	ABZ11019	0.733333
c34151	13.2	1	18	25	ABZ11020	0.733333
34152	13.2	1	18	25	ABZ11021	0.733333
34153	13.2	1	18	25	ABZ11022	0.733333
c 1	30	2.2	41	24	ABA03588	0.731707
c 189	18.2	1.3	25	24	ABV92615	0.728
c 190	18.2	1.3	25	24	ABV92616	0.728
c 191	18.2	1.3	25	24	ABV92617	0.728
c18604	13.8	1	19	13	AAQ27299	0.726316
c18605	13.8	1	19	14	AAQ47696	0.726316
c18606	13.8	1	19	18	AAX36444	0.726316
c18607	13.8	1	19	18	AAT95586	0.726316
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18609	13.8	1	19	19	AAV51978	0.726316
18610	13.8	1	19	19	AAV51979	0.726316
c18611	13.8	1	19	19	AAV56488	0.726316

c18612	13.8	1	19	19	AAT96201	0.726316
c18613	13.8	1	19	20	AAZ10311	0.726316
c18614	13.8	1	19	20	AAX33236	0.726316
c18615	13.8	1	19	20	AAX05488	0.726316
c18616	13.8	1	19	21	AAA93490	0.726316
18617	13.8	1	19	21	AAA84760	0.726316
c18618	13.8	1	19	21	AAA06830	0.726316
18619	13.8	1	19	21	AAA23478	0.726316
c18620	13.8	1	19	21	AAZ94157	0.726316
c18621	13.8	1	19	21	AAZ48149	0.726316
c18622	13.8	1	19	22	AAS11124	0.726316
18623	13.8	1	19	22	AAH59922	0.726316
c18624	13.8	1	19	24	ABS67159	0.726316
c4862	15.2	1.1	21	19	AAZ26599	0.72381
c4863	15.2	1.1	21	21	AAC58095	0.72381
c4864	15.2	1.1	21	21	AAA31011	0.72381
c4865	15.2	1.1	21	21	AAA32137	0.72381
4866	15.2	1.1	21	22	AAF75464	0.72381
4867	15.2	1.1	21	24	ABK94273	0.72381
c4868	15.2	1.1	21	24	ABK94274	0.72381
c40901	13	1	18	16	AAT05895	0.722222
40902	13	1	18	20	AAZ31808	0.722222
c40903	13	1	18	21	AAZ74428	0.722222
c40904	13	1	18	22	AAH26911	0.722222
c40905	13	1	18	22	AAD15912	0.722222
c40906	13	1	18	24	ABK41151	0.722222
10480	14.4	1.1	20	16	AAT41134	0.72
10481	14.4	1.1	20	16	AAQ75560	0.72
10482	14.4	1.1	20	19	AAV06457	0.72
c10483	14.4	1.1	20	19	AAT99084	0.72
c10484	14.4	1.1	20	20	AAZ37518	0.72
c10485	14.4	1.1	20	20	AAZ09195	0.72
10486	14.4	1.1	20	20	AAX26904	0.72
c10487	14.4	1.1	20	21	AAA48521	0.72
c10488	14.4	1.1	20	21	AAA49259	0.72
10489	14.4	1.1	20	22	AAS45819	0.72
c10490	14.4	1.1	20	22	AAS29287	0.72
c10491	14.4	1.1	20	22	AAF80672	0.72
c10492	14.4	1.1	20	25	ABT32305	0.72
c10493	14.4	1.1	20	25	ABZ76936	0.72
c10494	14.4	1.1	20	25	ABZ77002	0.72
10495	14.4	1.1	20	25	AAD51819	0.72
2630	15.8	1.2	22	25	ABQ80130	0.718182
2631	15.8	1.2	22	25	ABQ80159	0.718182
595	17.2	1.3	24	24	AAL45714	0.716667
6156	15	1.1	21	19	AAZ26122	0.714286
6157	15	1.1	21	19	AAZ26123	0.714286
6158	15	1.1	21	19	AAZ26124	0.714286
c6159	15	1.1	21	24	ABK65504	0.714286
c6160	15	1.1	21	24	ABK65804	0.714286
c 312	17.8	1.3	25	24	ABV92613	0.712
c 313	17.8	1.3	25	24	ABV92614	0.712
48565	12.8	0.9	18	15	AAQ70348	0.711111
c48566	12.8	0.9	18	16	AAQ86978	0.711111
c48567	12.8	0.9	18	17	AAT50704	0.711111
c48568	12.8	0.9	18	17	AAT28333	0.711111
48569	12.8	0.9	18	17	AAT30032	0.711111
48570	12.8	0.9	18	18	AAX75628	0.711111
48571	12.8	0.9	18	18	AAX70294	0.711111
c48572	12.8	0.9	18	18	AAX62734	0.711111

48573	12.8	0.9	18	18	AAX62754	0.711111
48574	12.8	0.9	18	18	AAT94805	0.711111
48575	12.8	0.9	18	18	AAT76410	0.711111
48576	12.8	0.9	18	19	AAX10189	0.711111
48577	12.8	0.9	18	19	AAV95056	0.711111
48578	12.8	0.9	18	19	AAV54165	0.711111
48579	12.8	0.9	18	19	AAV35391	0.711111
c48580	12.8	0.9	18	20	AAZ33132	0.711111
48581	12.8	0.9	18	20	AAZ41035	0.711111
48582	12.8	0.9	18	20	AAZ22129	0.711111
c48583	12.8	0.9	18	20	AAZ21232	0.711111
48584	12.8	0.9	18	20	AAX54203	0.711111
48585	12.8	0.9	18	20	AAX54193	0.711111
c48586	12.8	0.9	18	20	AAX26160	0.711111
48587	12.8	0.9	18	20	AAV81061	0.711111
48588	12.8	0.9	18	21	AAZ73148	0.711111
48589	12.8	0.9	18	21	AAZ76819	0.711111
48590	12.8	0.9	18	21	AAF19759	0.711111
48591	12.8	0.9	18	21	AAF19769	0.711111
c48592	12.8	0.9	18	21	AAA86618	0.711111
c48593	12.8	0.9	18	21	AAA86619	0.711111
c48594	12.8	0.9	18	21	AAA29110	0.711111
48595	12.8	0.9	18	21	AAA12057	0.711111
48596	12.8	0.9	18	21	AAA33637	0.711111
48597	12.8	0.9	18	21	AAA33647	0.711111
48598	12.8	0.9	18	21	AAZ90647	0.711111
c48599	12.8	0.9	18	22	AAH47994	0.711111
c48600	12.8	0.9	18	22	AAH61784	0.711111
c48601	12.8	0.9	18	22	AAH61785	0.711111
c48602	12.8	0.9	18	22	AAF61243	0.711111
48603	12.8	0.9	18	22	AAF79677	0.711111
c48604	12.8	0.9	18	22	AAF74480	0.711111
48605	12.8	0.9	18	22	AAF74483	0.711111
48606	12.8	0.9	18	22	AAF68906	0.711111
48607	12.8	0.9	18	22	AAH49174	0.711111
c48608	12.8	0.9	18	23	ABZ72206	0.711111
48609	12.8	0.9	18	24	ABT11916	0.711111
48610	12.8	0.9	18	24	ABQ65394	0.711111
48611	12.8	0.9	18	24	ABK11324	0.711111
c48612	12.8	0.9	18	24	ABL40174	0.711111
c48613	12.8	0.9	18	24	ABA05859	0.711111
48614	12.8	0.9	18	24	ABL30619	0.711111
c48615	12.8	0.9	18	24	ABL30631	0.711111
48616	12.8	0.9	18	24	ABL30669	0.711111
c48617	12.8	0.9	18	24	ABL31090	0.711111
48618	12.8	0.9	18	24	ABL31108	0.711111
48619	12.8	0.9	18	24	ABL31109	0.711111
c48620	12.8	0.9	18	24	AAS18869	0.711111
48621	12.8	0.9	18	24	ABL43144	0.711111
48622	12.8	0.9	18	24	ABL44827	0.711111
48623	12.8	0.9	18	25	ACA60576	0.711111
c48624	12.8	0.9	18	25	ABX75059	0.711111
48625	12.8	0.9	18	25	AAD50969	0.711111
c48626	12.8	0.9	18	25	ABZ56925	0.711111
48627	12.8	0.9	18	25	ABQ83705	0.711111
12714	14.2	1	20	16	AAQ82417	0.71
12715	14.2	1	20	17	AAT17134	0.71
c12716	14.2	1	20	18	AAT92490	0.71
12717	14.2	1	20	18	AAT73292	0.71
c12718	14.2	1	20	19	AAV57183	0.71

c12719	14.2	1	20	19	AAV57102	0.71
c12720	14.2	1	20	19	AAV38813	0.71
c12721	14.2	1	20	20	AAZ32721	0.71
12722	14.2	1	20	20	AAZ03892	0.71
12723	14.2	1	20	20	AAX29423	0.71
c12724	14.2	1	20	21	AAZ71860	0.71
c12725	14.2	1	20	21	AAZ77262	0.71
c12726	14.2	1	20	21	AAC93165	0.71
c12727	14.2	1	20	21	AAC93217	0.71
12728	14.2	1	20	21	AAC62966	0.71
c12729	14.2	1	20	21	AAA99073	0.71
12730	14.2	1	20	21	AAA99178	0.71
12731	14.2	1	20	21	AAA99182	0.71
12732	14.2	1	20	21	AAA72160	0.71
12733	14.2	1	20	21	AAA11598	0.71
c12734	14.2	1	20	21	AAA40718	0.71
c12735	14.2	1	20	21	AAA35414	0.71
c12736	14.2	1	20	21	AAZ40588	0.71
c12737	14.2	1	20	22	AAI66616	0.71
c12738	14.2	1	20	22	AAS08740	0.71
c12739	14.2	1	20	22	AAS08831	0.71
12740	14.2	1	20	22	AAH57078	0.71
c12741	14.2	1	20	22	AAH57086	0.71
c12742	14.2	1	20	22	AAF62896	0.71
12743	14.2	1	20	22	AAA91053	0.71
12744	14.2	1	20	23	AAH89204	0.71
12745	14.2	1	20	24	ABQ81623	0.71
12746	14.2	1	20	24	AAL49010	0.71
c12747	14.2	1	20	24	AAL47998	0.71
c12748	14.2	1	20	24	AAD37217	0.71
12749	14.2	1	20	24	ABK15887	0.71
12750	14.2	1	20	24	ABL45977	0.71
12751	14.2	1	20	24	ABL48720	0.71
12752	14.2	1	20	24	AAS97928	0.71
c12753	14.2	1	20	24	AAS96782	0.71
c12754	14.2	1	20	24	AAS96834	0.71
12755	14.2	1	20	24	ABI96234	0.71
12756	14.2	1	20	25	AAD52224	0.71
c12757	14.2	1	20	25	AAD52321	0.71
c12758	14.2	1	20	25	ABX33984	0.71
c12759	14.2	1	20	25	ABX34251	0.71
28097	13.4	1	19	16	AAQ75547	0.705263
28098	13.4	1	19	20	AAX06004	0.705263
28099	13.4	1	19	22	AAS45588	0.705263
c28100	13.4	1	19	24	ABL88875	0.705263
7316	14.8	1.1	21	16	AAQ75627	0.704762
7317	14.8	1.1	21	20	AAV81770	0.704762
c7318	14.8	1.1	21	21	AAA59547	0.704762
c7319	14.8	1.1	21	21	AAZ45243	0.704762
c7320	14.8	1.1	21	22	AAI70244	0.704762
7321	14.8	1.1	21	22	AAD19825	0.704762
c7322	14.8	1.1	21	22	AAD19826	0.704762
c7323	14.8	1.1	21	22	AAF85557	0.704762
7324	14.8	1.1	21	24	ABK15655	0.704762
c1743	16.2	1.2	23	15	AAQ64857	0.704348
376	17.6	1.3	25	21	AAC95776	0.704
377	17.6	1.3	25	21	AAC96237	0.704
15365	14	1	20	16	AAQ86242	0.7
15366	14	1	20	17	AAT10191	0.7
15367	14	1	20	18	AAT64842	0.7

c15368	14	1	20	21	AAZ72938	0.7
15369	14	1	20	21	AAA53330	0.7
c15370	14	1	20	22	AAF83877	0.7
c15371	14	1	20	22	AAC83988	0.7
15372	14	1	20	24	ABQ82751	0.7
15373	14	1	20	24	AAD46116	0.7
15374	14	1	20	24	ABT09862	0.7
c15375	14	1	20	24	ABL59377	0.7
c15376	14	1	20	24	ABQ74025	0.7
15377	14	1	20	24	AAD39371	0.7
c15378	14	1	20	24	ABI93616	0.7
15379	14	1	20	24	ABI95663	0.7
57976	12.6	0.9	18	20	AAX87332	0.7